

06/14/00

1c545 U.S. PTO

PATENT APPLICATION TRANSMITTAL LETTER

(Small Entity)

Docket No.
97-401

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

R.S. YOUNG

For: **DISPOSABLE CLEANING FABRICS**

Enclosed are:

- ☒ Certificate of Mailing with Express Mail Mailing Label No.
- ☒ **TWO INFORMAL** sheets of drawings.
- ☐ A certified copy of a _____ application.
- ☒ Declaration ☐ Signed. ☒ Unsigned.
- ☒ Power of Attorney
- ☒ Information Disclosure Statement
- ☐ Preliminary Amendment
- ☒ **TWO** Verified Statement(s) to Establish Small Entity Status Under 37 C.F.R. 1.9 and 1.27.
- ☐ Other:

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	12	- 20 =	0	x \$9.00	\$0.00
Indep. Claims	7	- 3 =	4	x \$39.00	\$156.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$380.00
TOTAL FILING FEE					\$536.00

- ☒ A check in the amount of **\$536.00** to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
 - ☐ Charge the amount of _____ as filing fee.
 - ☐ Credit any overpayment.
 - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated:

6/14/2000

WM Bruce Day
Signature

WM. BRUCE DAY
PTO #29,059
SWANSON MIDGLEY LLC
2420 PERSHING, SUITE 400
KANSAS CITY, MISSOURI 64108
TEL: 816-842-6100

CC:

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)Applicant(s): **R.S. YOUNG**

Docket No.

97-401

Serial No.

Filing Date

6/14/00

Examiner

Group Art Unit

Invention: **DISPOSABLE CLEANING FABRICS**I hereby certify that this **PATENT APPLICATION***(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on

JUNE 14, 2000*(Date)***WM. BRUCE DAY***(Typed or Printed Name of Person Mailing Correspondence)*
*(Signature of Person Mailing Correspondence)***EL411254497US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27 (c)) - SMALL BUSINESS CONCERN**

Docket No.
97-401

Serial No.

Filing Date
JUNE 14,2000

Patent No.

Issue Date

Applicant/ **R.S. YOUNG**
Patentee:
Invention: **DISPOSABLE CLEANING FABRICS**

I hereby declare that I am:

- ☐ the owner of the small business concern identified below:
- ☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: SCOT YOUNG RESEARCH, LTD.ADDRESS OF CONCERN: HILL ROAD, LYE, STOURBRIDGE, WEST MIDLANDS, DY9 8HG, GREAT

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the above identified invention described in:

- ☒ the specification filed herewith with title as listed above.
- ☐ the application identified above.
- ☐ the patent identified above.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed on the next page and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☐ no such person, concern or organization exists.
☒ each such person, concern or organization is listed below.

FULL NAME **SCOT YOUNG RESEARCH, INC.**

ADDRESS **P.O. BOX 817, 503 RENICK STREET, ST. JOSEPH, MISSOURI 64501**

☐ Individual ☒ Small Business Concern ☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME

ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: **RONALD SCOT YOUNG**

TITLE OF PERSON SIGNING

OTHER THAN OWNER: **PRESIDENT**

ADDRESS OF PERSON SIGNING: **HILL ROAD, LYE
STOURBRIDGE, WEST MIDLANDS
DY9 8HG GREAT BRITAIN**

SIGNATURE: _____ DATE: _____

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27 (c)) - SMALL BUSINESS CONCERN**

Docket No.
97-401

Serial No.

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Applicant/ **R.S. YOUNG**
Patentee:
Invention: **DISPOSABLE CLEANING FABRICS**

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- ☐ the owner of the small business concern identified below:
- ☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: SCOT YOUNG RESEARCH, INC.ADDRESS OF CONCERN: P.O. BOX 817, 503 RENICK STREET, ST. JOSEPH, MO 64501

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

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- ☒ the specification filed herewith with title as listed above.
- ☐ the application identified above.
- ☐ the patent identified above.

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Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☐ no such person, concern or organization exists.
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FULL NAME **SCOT YOUNG RESEARCH, LTD.**

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☐ Individual ☒ Small Business Concern ☐ Nonprofit Organization

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I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: **R. S. YOUNG**

TITLE OF PERSON SIGNING

OTHER THAN OWNER: **PRESIDENT**

ADDRESS OF PERSON SIGNING: **SCOT YOUNG RESEARCH, INC.**

P.O. BOX 817

503 RENICK STREET

ST. JOSEPH, MO 64501

SIGNATURE: _____ DATE: _____

DISPOSABLE CLEANING FABRICS

Abstract of the Disclosure

Disposable cleaning devices use lengths of folded and nonfolded non-woven fabric interlaid with paper or waste fabric strips or ribbons of material. These fabrics are an alternative to yarn in the manufacture of inexpensive, disposable products including mats, drop sheets, furniture covers for movers, carpet protectors, cleaning wipes, mopheads, diapers, incontinence mats and the like. A particular embodiment is disclosed wherein a mop swab is made from the disclosed yarn substitute to provide a mop which is priced to discard after one time or several time use. The mop swab is formed from the elongate yarn substitute by wrapping about spaced arms and bunched to form a head attachable to a mop fixture. Tail ends may be looped or cut. Wipes may be made from the yarn substitute by forming a wrap and placing the wrap within a case-like cover.

DISPOSABLE CLEANING FABRICS

Field of the Invention

This invention relates to cleaning fabrics and a method for making same which uses inexpensive, generally waste materials. The fabrics are preferably made from non-woven materials with an outer layer of material and a highly absorbent inner layer of material.

Background of the Invention

Cleaning devices, mops, wipes and covers have historically been made from cotton or synthetic fibers which are twisted and formed into strands and the strands formed into yarns. The yarns may be woven on looms to product sheet form goods. These woven fabric articles are made in more or less degrees of cost. An alternative to traditional fiber yarns has been the use of non-woven cellulose / wood pulp fabrics such as used in tea bags, food and industry machine filters, disposable uniforms, packaging, paper wipes, facial tissue, paper towels and the like. Waste products result from the manufacture of these items. Applicant's invention provides a novel approach to the use of these waste products. An outer strip of waste material is combined with an inner filling of a different type of waste material. The inner and outer materials are combined by a multiplicity of folds or by tacking, stitching, gluing or other connection means. These waste materials are preferably cellulose based non-woven materials which are selected for

particular end uses on the basis of differing performance characteristics such as resistance to abrasion, absorbency, longevity and abrasive qualities. The extreme low cost of these materials, previously considered waste trimming and lower end by-products of higher end manufacturing processes, makes feasible a one time or very short time use for the ultimate purchaser while maintaining an adequate margin for the manufacturer.

Many attempts have been made to produce an inexpensive mop which have met varying degrees of success. Some methods have used the cheapest fibers or re-claimed fibers in the spinning process, others have used stacks of fabrics from which strips are cut to form flat ribbons or strings, and yet others have processed non-woven materials using special stretching and twisting techniques which reduce absorbency but add sufficient strength to make a usable mop or other cleaning article. Some are less or more absorbent than others, and some are sturdier in use than others. The instant invention presents a novel solution to the disposable cleaning article and mop problem by providing a strip or ribbon of material which is folded about an absorbent inner material. A mop made in accordance with the disclosed process is of such low expense that it can be disposed after one time or possibly two or three time use, such as a single days use. The mop is absorbent yet sufficiently robust to provide effective scrubbing and cleaning ability. Throws, absorbent pads and wipes can also be made from the disclosed yarn substitute; a particular form of wipe is disclosed.

Description of the Drawings

The following drawings are provided as illustrative examples of the present invention.

Fig. 1 is a perspective, fragmentary view of a yarn substitute textile material embodying

the present invention.

Fig. 2 is a cross-sectional view taken along the lines 2-2, Fig. 1.

Fig. 3 is a perspective, fragmentary view of the yarn substitute material embodied so as to form a wipe or mat.

Fig. 4 is a front elevational view of the yarn substitute embodied in the form of a mop.

Fig. 5 is an enlarged, cross-sectional view of the mop.

Fig. 6 discloses a step in the manufacture of the yarn substitute ribbon shown in Fig. 1.

Fig. 7 is a cross-sectional view of the ribbon structure shown in Fig. 6.

Description of the Preferred and Alternate Embodiments

As required, a detailed description of the preferred and alternate embodiments is disclosed herein, however, other embodiments or configurations may be apparent based upon the following description to those having ordinary skill in the art.

Ref. 1, Fig. 1 generally designates a ribbon forming a yarn substitute. The ribbon 1 is generally formed of an outer wrapping 3 of a non-woven material such as used in the manufacture of tea bags, food and industry machine filters, disposable uniforms, packaging, and the like. The outer wrapping 3 is a waste material remaining from the manufacturer of such items and are the trimmings or ends of rolls of such material. This scrap material differs in resistance to abrasion, absorbency, longevity, abrasive qualities and other attributes. Because the ribbon 1 can be put to various purposes as a yarn substitute, the qualities of the outer wrapping 3 are selected based upon the proposed use of the ribbon 1. The outer ribbon 3 is preferably a single length of material which is folded double, as shown in Fig. 2, into top and bottom layers 4

and 5. The ribbon 1 is filled with other non-woven fabric waste products such as trimmings from paper wipes, facial tissue, paper towels and the like highly absorbent materials. This filling 7 is also folded longitudinally, may be folded in multiple pleats accordion style and is gathered within the outer wrapping 3, Fig. 2. The complete ribbon 1 is preferably in the order of one quarter inch to one inch wide, and is manufactured in long rolls.

To secure the outer wrapping 3, the wrapping 3 may be center stitched 9, as shown in Figs. 1 and 2, or the stitching 9 may be edge stitching. Other types of bonding may be used as appropriate, including ultrasonic welding, heat welding, gluing, and other closure techniques. Alternatively, stitching 9 may not be required at all and the wrapping 3 would be sufficiently wrapped about the inner filling 7 to provide a complete closure which will remain intact.

The ribbon 1 is useful for making inexpensive, disposable sanitary maintenance items such as the wipe or pad 12 shown in Fig. 3 or the mop 14 shown in Fig. 4. In the wipe or pad 12, Fig. 3, the ribbon 1 is formed into a flat mat structure 16 as by winding a continuous length of ribbon 1 about spaced arms which use chains or augers as is commonly known in the art to produce a coil of material. The distance between the spaced arms is dependent upon the width of the article to be produced. In the illustrated mat structure 16, the width may be several inches or several feet depending on the size of wipe or pad to be used. If a wipe, then five or six inches wide may be appropriate. If a pad, such as to be placed by the bedside of an incontinent person, or, for example, used for oil spills, or as a packaging protective pad, the structure might be several feet wide. The mat structure 16 is encased within a pillow or envelope 18 with top and bottom layers sealed closed.

When used in the manufacture of a mop 14, the ribbon 1 is formed into a mophead 20 by coiling about the aforementioned spaced traveling arms with the resultant spiral wound structure cut to a headband width of approximately six inches. A mop fixture 22 is affixed at the head 23. The mop fixture 22 includes a spigot 24 for connection to a mop handle 25. The tail end 27 of the mop, Fig. 4, is left looped, one arm of the mop shown in connection with Fig. 5, another arm of which would extend parallel to the one arm shown in Fig. 5 in a true longitudinal sectional view of Fig. 4. Note that the ribbon 1 is left looped at the tail end 27. When a looped end mop is constructed, no stitching 9 need be done and the outer wrapping 3 may be simply folded over and retained in place by the looped end. However, if it is desired to construct a cut end mop (not shown), then it is desired to use appropriate stitching 9 or other edge connection or bonding technique.

A method of manufacture of the ribbon 1 is shown in connection with Figs. 6 and 7, wherein the wrapping 3 is run through rollers which form a trough 28, the inner filling 7 laid into the bottom layer 5 and the top layer 4 folded thereover. Fig. 7 shows a folded edge 30 and an opposite stitched edge 31.

The ribbon 1 may be manufactured in various widths, but the preferred ribbon particularly suitable as a yarn substitute is in the nature of a half-quarter to one-inch in width.

The aforementioned yarn substitute provides an inexpensive alternative to cotton-based twisted yarn products. Such yarn products, when made inexpensively, use short length fibers which are susceptible to linting off of the yarn strand and further subject to rapid deterioration. The alternative disclosed herein uses interlaid lengths of folded and non-folded non-woven and

cellulose and paper strips or ribbons to make a mop, wipe, pad or other such sanitary maintenance product of such low cost that it is economically disposable. It will be appreciated that folded material has been shown herein, however, if long strips of edge cut material are available, non-folded single strips may be readily used, particularly when laid in in a stacked or sandwich manner as filling.

The waste inner material originates from such products as tea bags, food and industry machine filters, disposable uniforms, packaging, paper wipes, facial tissue, paper towels, and the like. Each specific waste product has different physical properties such as high absorbency, heat retention, and the like which can be suited to various applications. The outer material or wrapper can be selected to have differing physical properties to suit specific applications, including high tensile strength, waterproofness, cleaning power, dirt retention or release, non linting, oil and grease adherence, and the like.

The invention as described above is not limited to the foregoing description except as set forth in the following claims.

CLAIMS

What is claimed and desired to be secured by Letters Patent Is:

1. A yarn substitute for cleaning comprising:
 - a) outer layers of inexpensive waste material;
 - b) an inner layer of inexpensive waste material;
 - c) said outer layers connected together to maintain the inner layer therebetween.
2. An elongate ribbon useful as a yarn substitute comprising a strip of absorbent outer non-woven fabric at least folded double longitudinally and filled with an absorbent inner waste from non-woven materials to form a sandwich structure.
3. An elongate ribbon useful as a yarn substitute comprising outer strips of non-woven fabric layered with inner filling waste from non-woven materials to form a sandwich structure, said outer strips being bound together to secure the inner filling therebetween.
4. A mop swab formed of elongate ribbons of absorbent outer fabric material at least folded double along their respective longitudinal axes and filled with absorbent inner waste

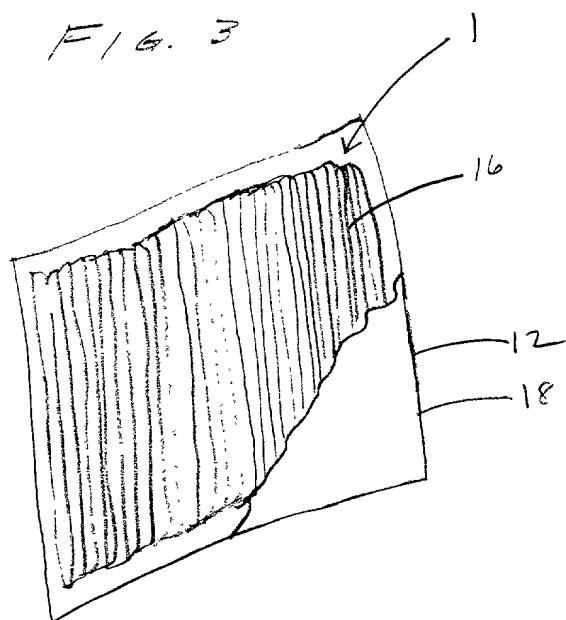
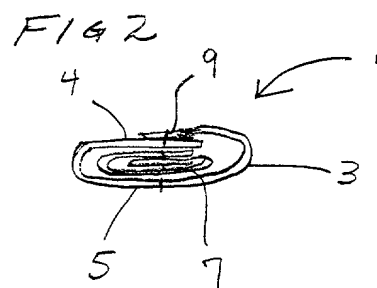
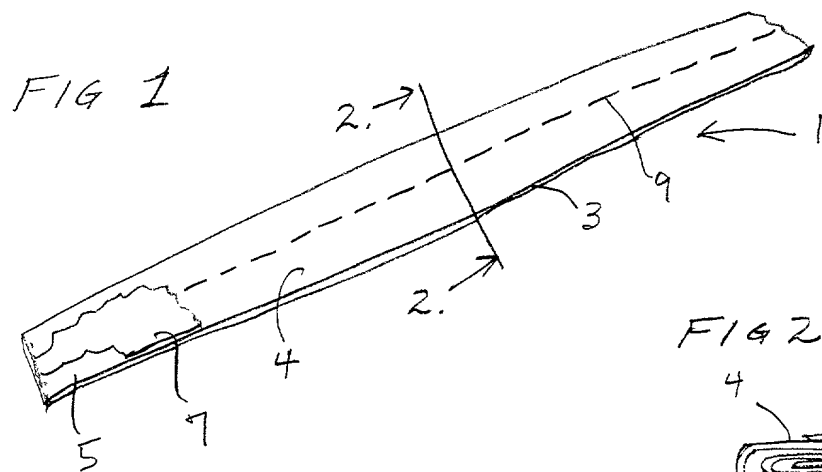
material, said ribbons passing through a center area for binding to a handle fixture and having ends at a tail of said mop swab, said outer material in folded double relation retaining said inner waste material therein.

5. The mop swab set forth in Claim 1 wherein the ribbons are joined substantially centrally of the swab in a bunched together relationship for attachment to a handle fixture.
6. The mop swab set forth in Claim 1 wherein the elongate ribbons are formed of non-woven material.
7. The mop swab set forth in Claim 1 wherein the elongate ribbons have margins which are joined together.
8. The mop swab as set forth in Claim 4 wherein the margins are connected by stitching.
9. The mop swab as set forth in Claim 4 wherein the margins are connected by fabric welding.
10. A mop swab formed of elongate ribbons of non-woven material at least folded double along their longitudinal axes and filled with absorbent inner waste material with margins joined together to retain said inner waste material therein, said ribbons being formed into

looped ends at a tail end of said mop swab.

11. A mop swab formed of elongate strips of inexpensive material which passes water therethrough and is sufficiently sturdy to withstand scrubbing actions, the strips being formed into troughs to receive absorbent waste material then folded over at least double about longitudinal axis to trap the absorbent material therein, the strips then folded forming ribbons gathered together to form a center section for connection to a mop handle fixture and with opposite arms hanging downwardly from said center section to form a mop swab of economically disposable material sufficiently robust for scrubbing and mopping operations.
12. An absorbent cleaning article comprising a coil wrapping of a yarn substitute formed of an elongate ribbon of absorbent outer non-woven fabric at least folded double longitudinally and filled with absorbent inner waste strips to form a sandwich structure, the coil wrapping collapsed flat and encased within an outer envelope to form a pad.

Variable	Mean	SD	Min	Max
Age	34.5	10.5	20	55
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	15
Income	15.5	5.5	10	25
Health status	1.5	0.5	1	2
Stress level	2.5	1.5	1	4
Life satisfaction	3.5	1.5	1	5
Work satisfaction	3.5	1.5	1	5
Family satisfaction	3.5	1.5	1	5
Community satisfaction	3.5	1.5	1	5
Overall satisfaction	3.5	1.5	1	5
Life expectancy	75.5	5.5	60	90
Quality of life	4.5	1.5	1	7
Healthcare access	3.5	1.5	1	5
Healthcare quality	3.5	1.5	1	5
Healthcare cost	3.5	1.5	1	5
Healthcare coverage	3.5	1.5	1	5
Healthcare satisfaction	3.5	1.5	1	5
Healthcare utilization	3.5	1.5	1	5
Healthcare expenditure	3.5	1.5	1	5
Healthcare performance	3.5	1.5	1	5
Healthcare innovation	3.5	1.5	1	5
Healthcare reform	3.5	1.5	1	5
Healthcare policy	3.5	1.5	1	5
Healthcare regulation	3.5	1.5	1	5
Healthcare governance	3.5	1.5	1	5
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Healthcare process	3.5	1.5	1	5
Healthcare outcome	3.5	1.5	1	5
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Healthcare legacy	3.5	1.5	1	5
Healthcare future	3.5	1.5	1	5
Healthcare hope	3.5	1.5	1	5
Healthcare faith	3.5	1.5	1	5
Healthcare love	3.5	1.5	1	5
Healthcare compassion	3.5	1.5	1	5
Healthcare empathy	3.5	1.5	1	5
Healthcare kindness	3.5	1.5	1	5
Healthcare generosity	3.5	1.5	1	5
Healthcare humility	3.5	1.5	1	5
Healthcare patience	3.5	1.5	1	5
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Healthcare forgiveness	3.5	1.5	1	5
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Healthcare grace	3.5	1.5	1	5
Healthcare peace	3.5	1.5	1	5
Healthcare joy	3.5	1.5	1	5
Healthcare happiness	3.5	1.5	1	5
Healthcare contentment	3.5	1.5	1	5
Healthcare gratitude	3.5	1.5	1	5
Healthcare thankfulness	3.5	1.5	1	5
Healthcare praise	3.5	1.5	1	5
Healthcare worship	3.5	1.5	1	5
Healthcare devotion	3.5	1.5	1	5
Healthcare commitment	3.5	1.5	1	5
Healthcare dedication	3.5	1.5	1	5
Healthcare passion	3.5	1.5	1	5
Healthcare enthusiasm	3.5	1.5	1	5
Healthcare energy	3.5	1.5	1	5
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Healthcare influence	3.5	1.5	1	5
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Healthcare climate	3.5	1.5	1	5
Healthcare environment	3.5	1.5	1	5
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Healthcare organization	3.5	1.5	1	5
Healthcare structure	3.5	1.5	1	5
Health				



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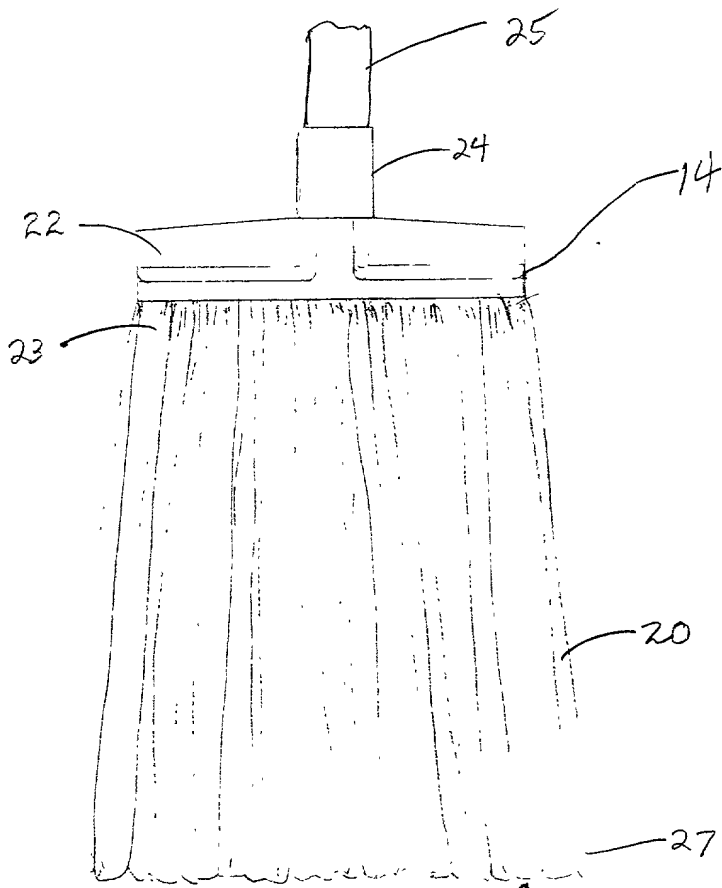


Fig. 4

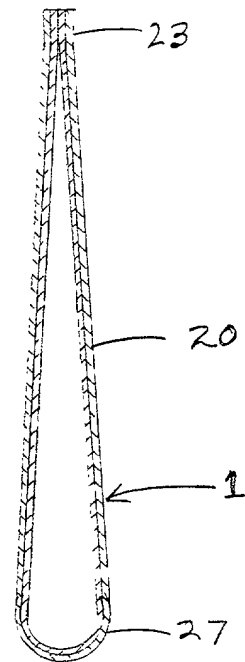


Fig. 5

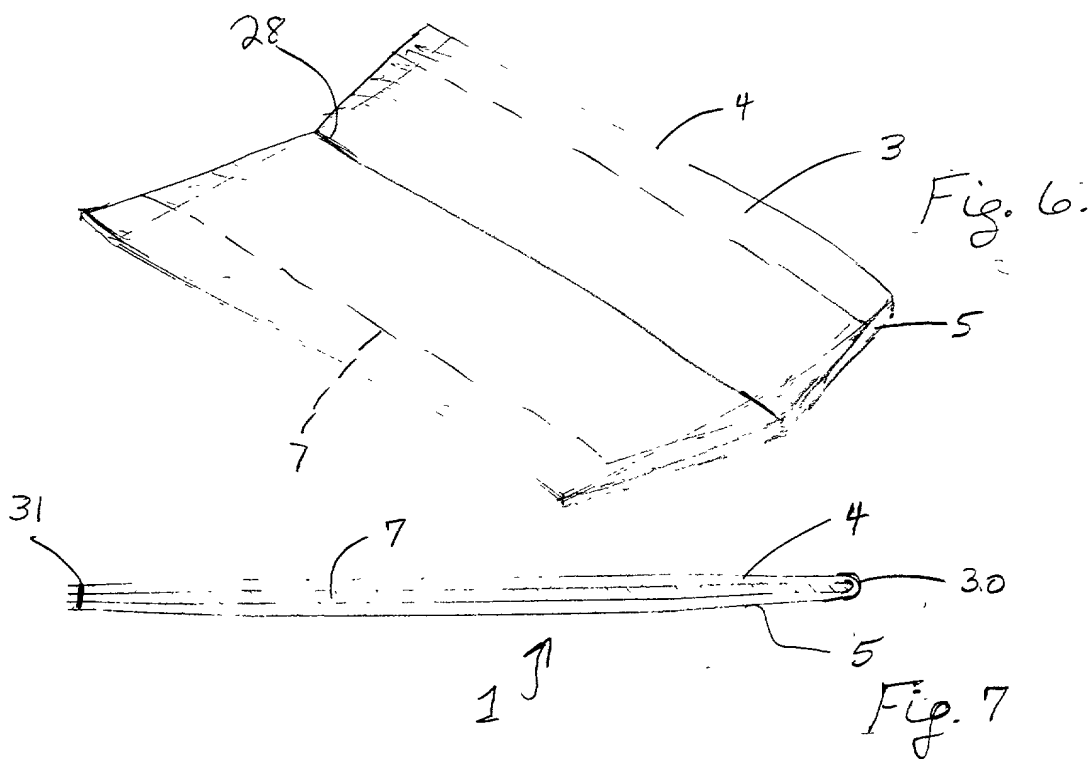


Fig. 6.

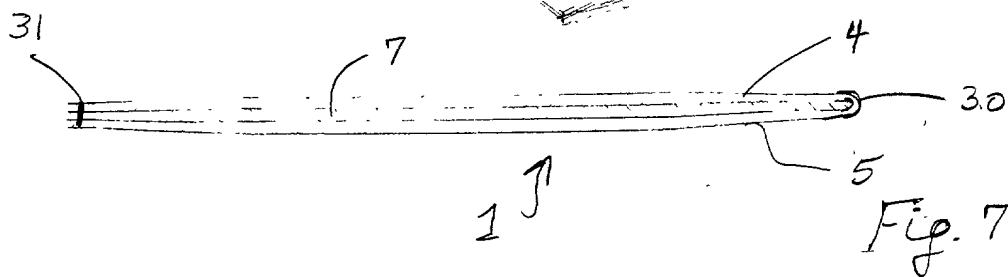


Fig. 7

Docket No.
97-401

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

DISPOSABLE CLEANING FABRICS

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on _____ as United States Application No. or PCT International Application Number _____ and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

N/A	N/A
(Application Serial No.)	(Filing Date)
(Application Serial No.)	(Filing Date)
(Application Serial No.)	(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

N/A	N/A	N/A
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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